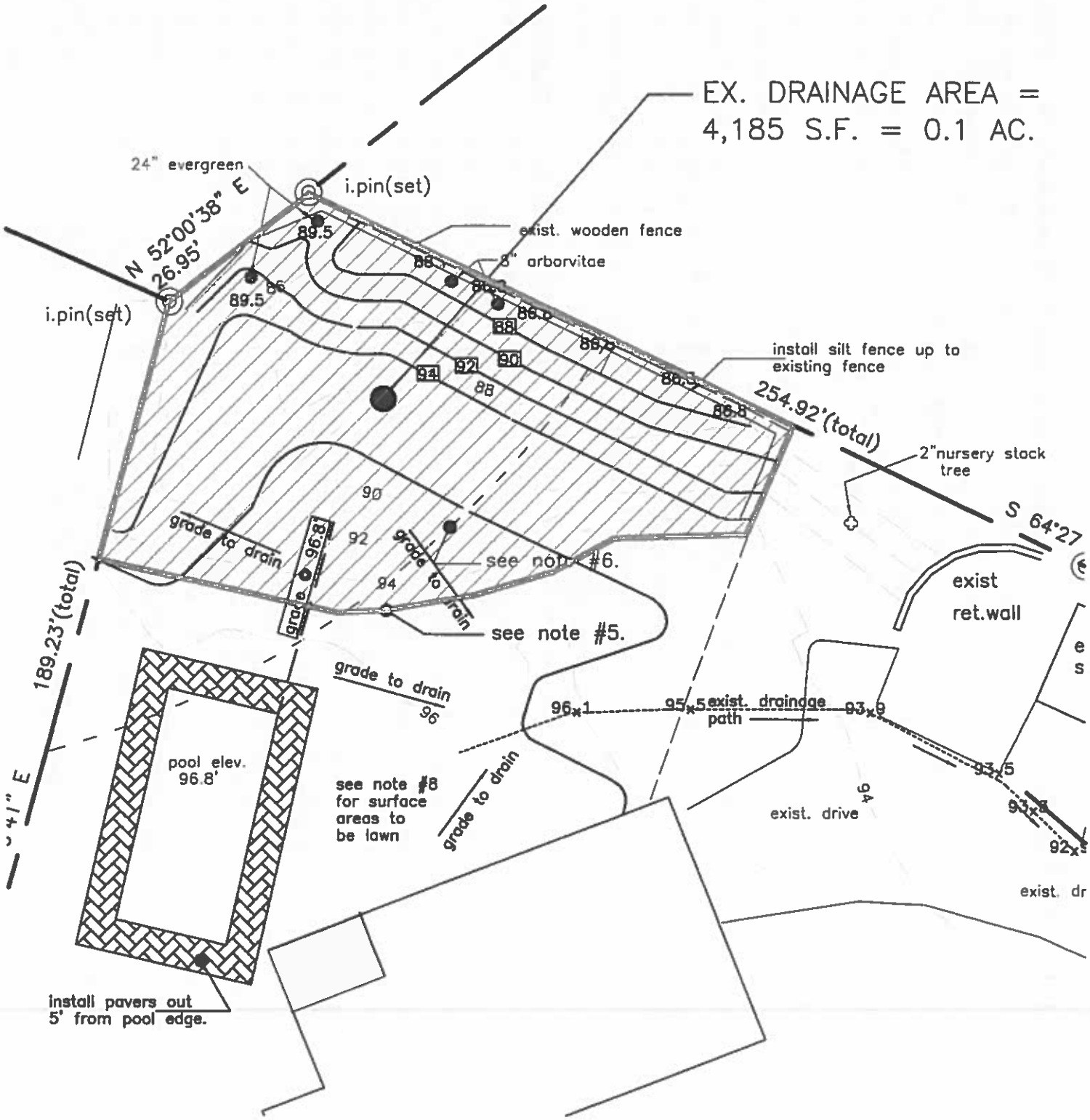
Drainage Report
54 Old Oak Road
West Hartford, Connecticut
May 3, 2018
rev 5/5/18

Richard P. Martel LS & PE

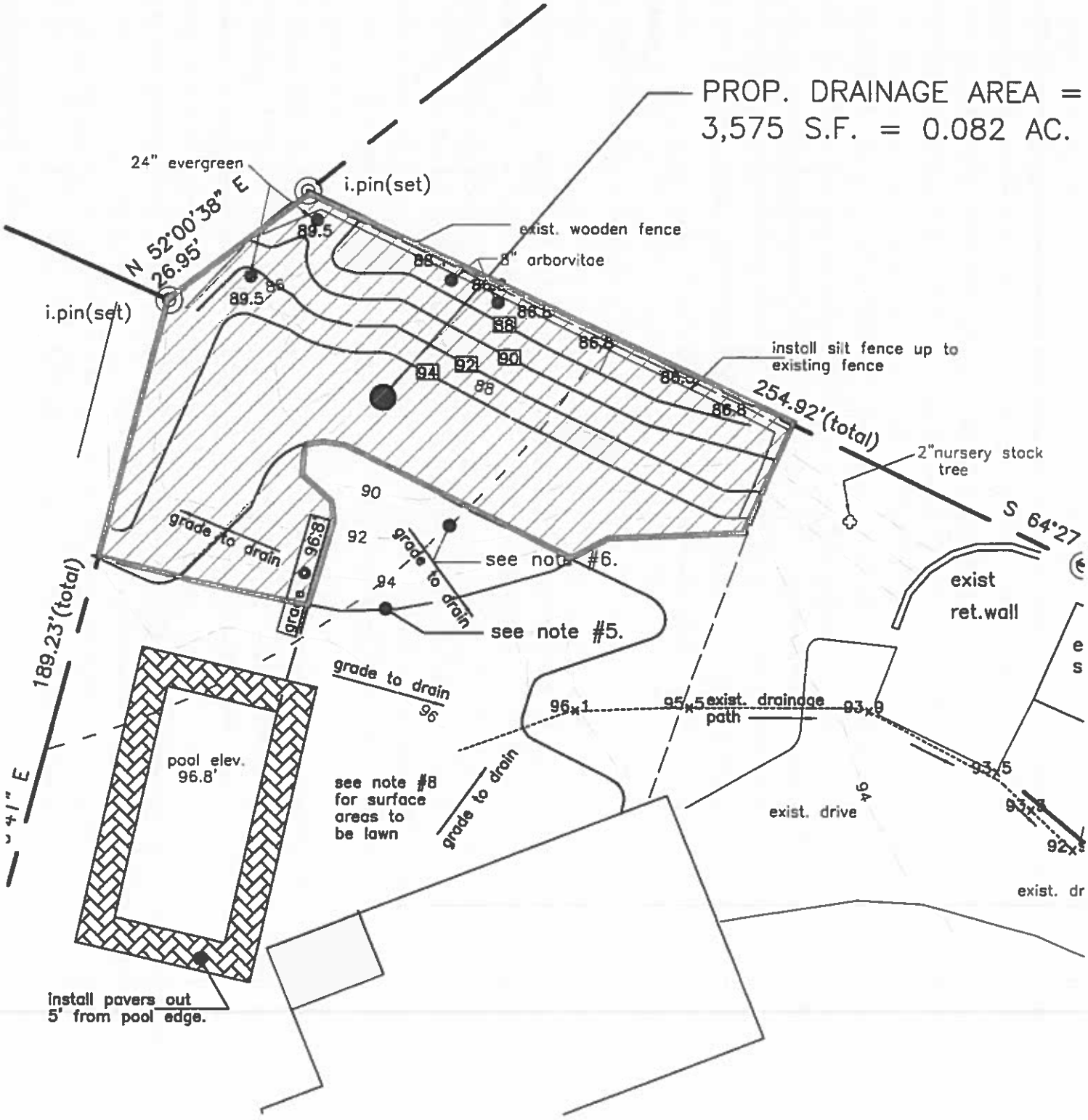
PRE-DEVELOPMENT DRAINAGE

54 OLD OAK ROAD
WEST HARTFORD CT.
5/6/18 1" = 20'



POST DEVELOPMENT DRAINAGE

54 OLD OAK ROAD
WEST HARTFORD CT.
5/6/12 1"=20'



Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
1	Rational	0.123	1	5	55	---	-----	-----	PRE-DEVELOPMENT
2	Rational	0.101	1	5	45	---	-----	-----	POST-DEVELOPMENT

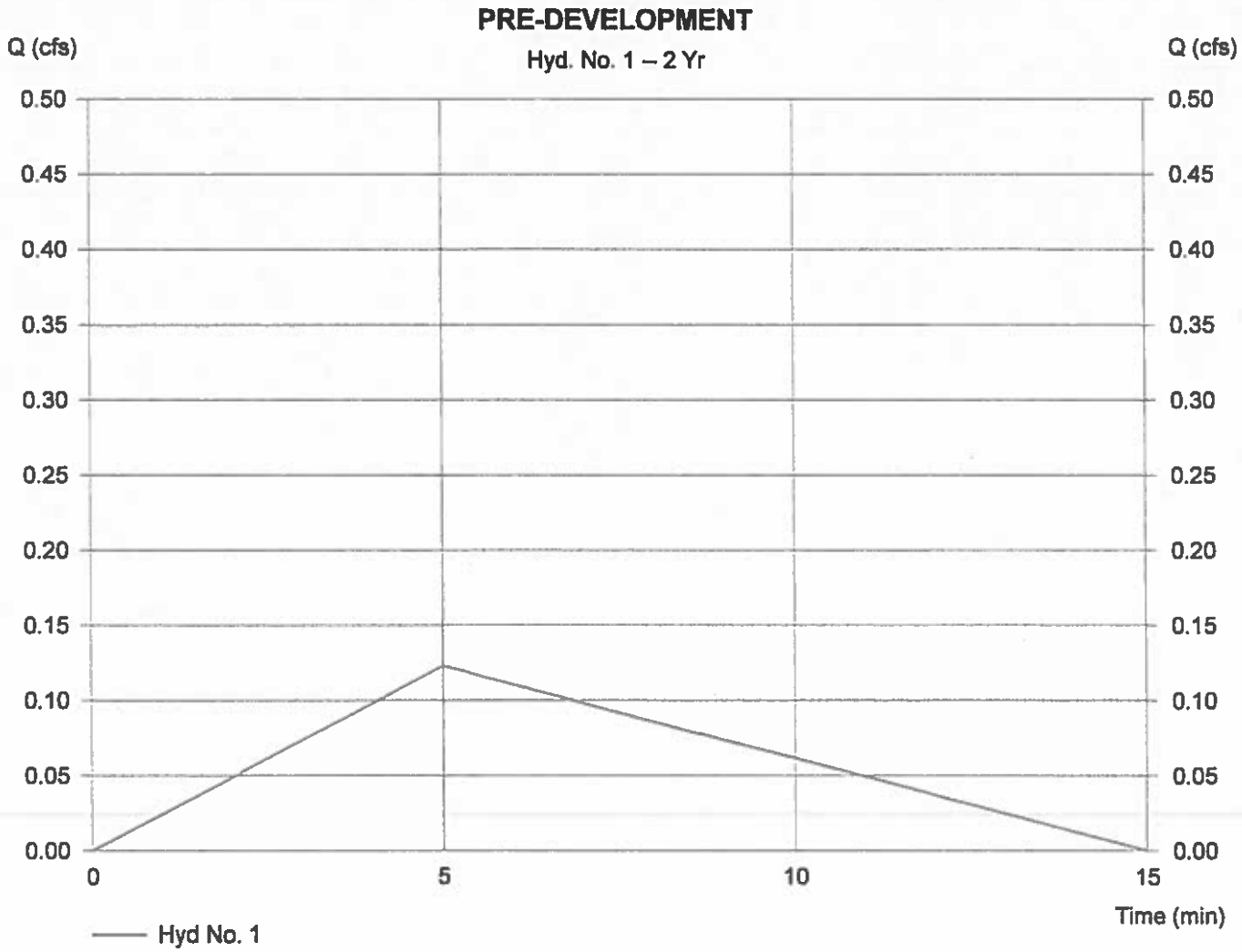
Hydrograph Plot

Hyd. No. 1

PRE-DEVELOPMENT

Hydrograph type	= Rational	Peak discharge	= 0.123 cfs
Storm frequency	= 2 yrs	Time interval	= 1 min
Drainage area	= 0.100 ac	Runoff coeff.	= 0.3
Intensity	= 4.087 in/hr	Tc by User	= 5.00 min
IDF Curve	= hartford.IDF	Asc/Rec limb fact	= 1/2

Hydrograph Volume = 55 cuft



Hydrograph Plot

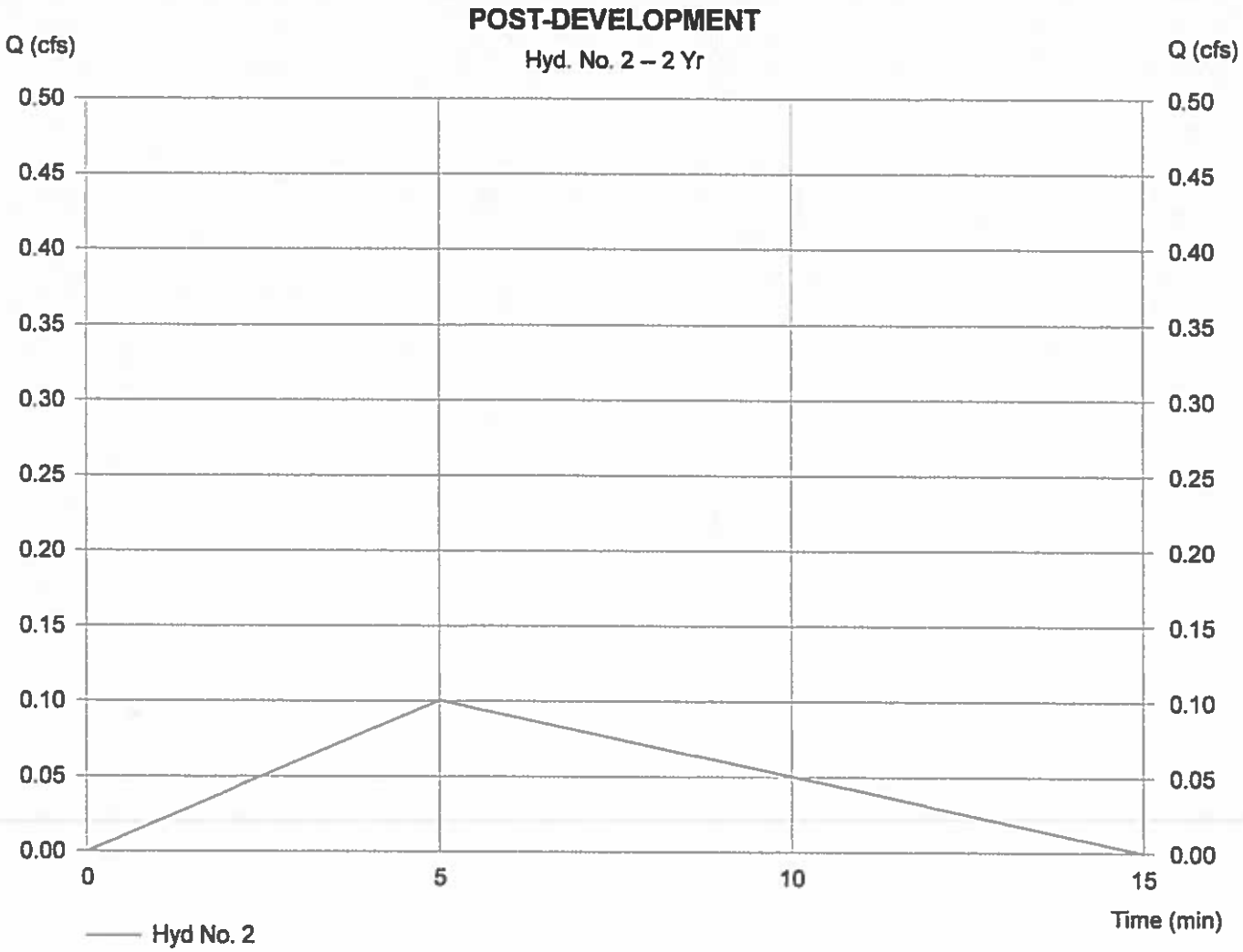
Hydraflow Hydrographs by Intelisolve — Sunday, May 6 2018, 11:53 AM

Hyd. No. 2

POST-DEVELOPMENT

Hydrograph type	= Rational	Peak discharge	= 0.101 cfs
Storm frequency	= 2 yrs	Time interval	= 1 min
Drainage area	= 0.082 ac	Runoff coeff.	= 0.3
Intensity	= 4.087 in/hr	Tc by User	= 5.00 min
IDF Curve	= hartford.IDF	Asc/Rec limb fact	= 1/2

Hydrograph Volume = 45 cuft



Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time Interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
1	Rational	0.186	1	5	84	---	-----	-----	PRE-DEVELOPMENT
2	Rational	0.152	1	5	69	---	-----	-----	POST-DEVELOPMENT

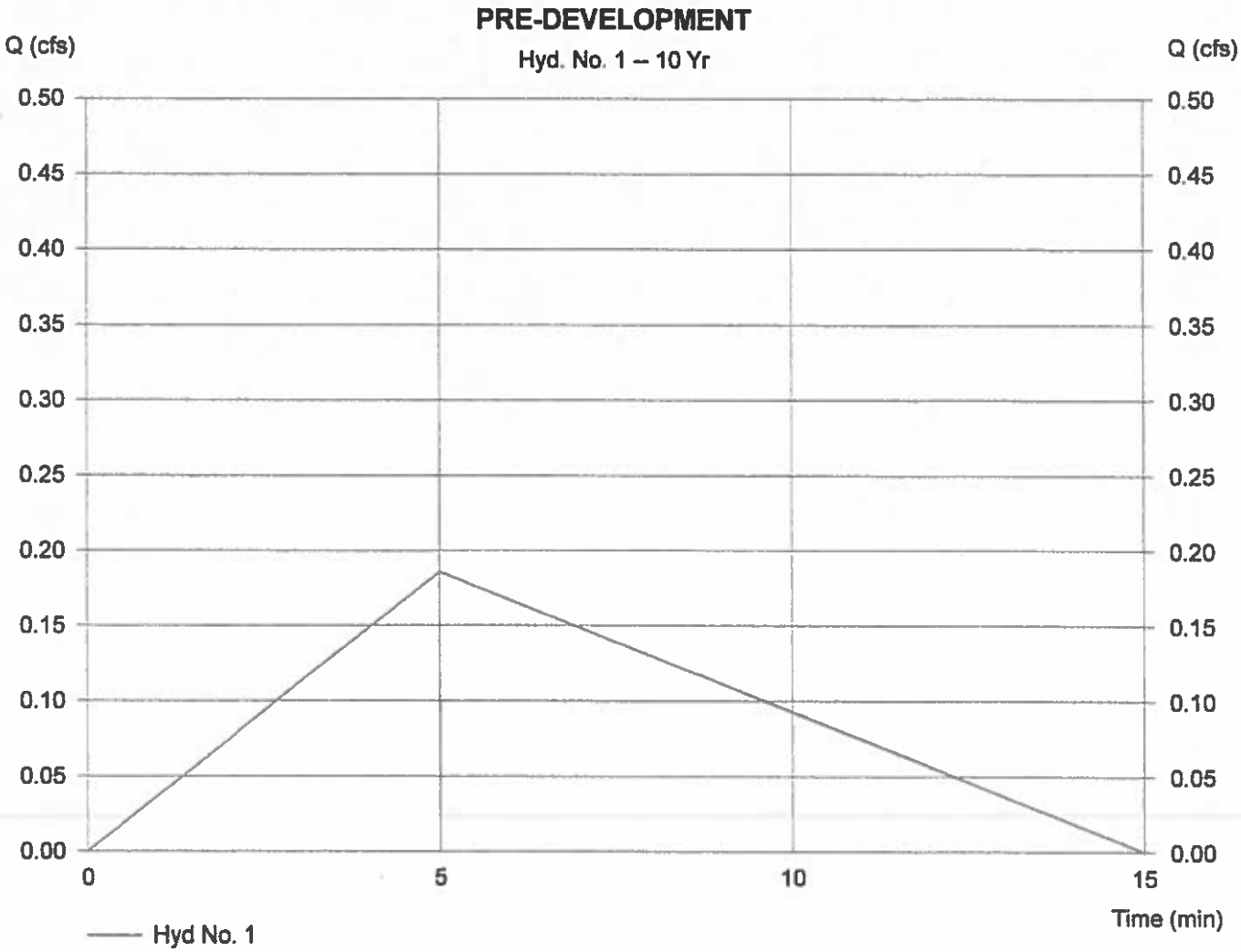
Hydrograph Plot

Hyd. No. 1

PRE-DEVELOPMENT

Hydrograph type	= Rational	Peak discharge	= 0.186 cfs
Storm frequency	= 10 yrs	Time interval	= 1 min
Drainage area	= 0.100 ac	Runoff coeff.	= 0.3
Intensity	= 6.188 in/hr	Tc by User	= 5.00 min
IDF Curve	= hartford.IDF	Asc/Rec limb fact	= 1/2

Hydrograph Volume = 84 cuft



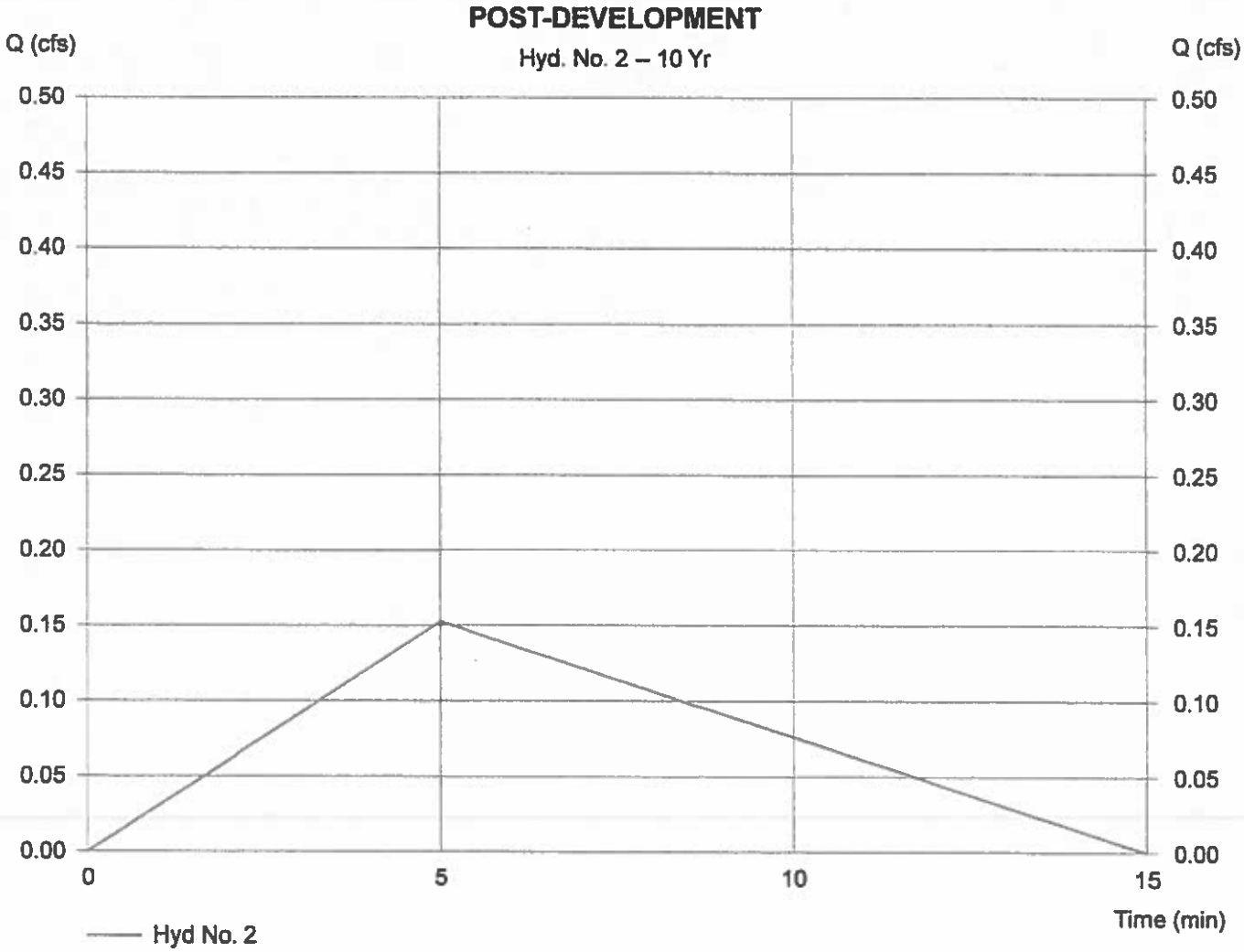
Hydrograph Plot

Hyd. No. 2

POST-DEVELOPMENT

Hydrograph type	= Rational	Peak discharge	= 0.152 cfs
Storm frequency	= 10 yrs	Time interval	= 1 min
Drainage area	= 0.082 ac	Runoff coeff.	= 0.3
Intensity	= 6.188 in/hr	Tc by User	= 5.00 min
IDF Curve	= hartford.IDF	Asc/Rec limb fact	= 1/2

Hydrograph Volume = 69 cuft



Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description
1	Rational	0.252	1	5	113	---	-----	----	PRE-DEVELOPMENT
2	Rational	0.207	1	5	93	---	-----	----	POST-DEVELOPMENT

Hydrograph Plot

Hyd. No. 1

PRE-DEVELOPMENT

Hydrograph type	= Rational	Peak discharge	= 0.252 cfs
Storm frequency	= 100 yrs	Time interval	= 1 min
Drainage area	= 0.100 ac	Runoff coeff.	= 0.3
Intensity	= 8.395 in/hr	Tc by User	= 5.00 min
IDF Curve	= hartford.IDF	Asc/Rec limb fact	= 1/2

Hydrograph Volume = 113 cuft

Hydrograph Plot

Hyd. No. 2

POST-DEVELOPMENT

Hydrograph type	= Rational	Peak discharge	= 0.207 cfs
Storm frequency	= 100 yrs	Time interval	= 1 min
Drainage area	= 0.082 ac	Runoff coeff.	= 0.3
Intensity	= 8.395 in/hr	Tc by User	= 5.00 min
IDF Curve	= hartford.IDF	Asc/Rec limb fact	= 1/2

Hydrograph Volume = 93 cuft